

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061118\  
 Data File : VX002436.D  
 Acq On : 11 Jun 2018 10:57  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 11 16:39:33 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 75    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.520 | 0.441 | 15.2   | 61    | 0.00     |
| 3 P   | Chloromethane               | 0.684 | 0.563 | 17.7   | 68    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.655 | 0.586 | 10.5#  | 68    | 0.00     |
| 5 T   | Bromomethane                | 0.521 | 0.358 | 31.3#  | 71    | 0.00     |
| 6 T   | Chloroethane                | 0.424 | 0.416 | 1.9    | 76    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.998 | 0.983 | 1.5    | 72    | 0.00     |
| 8 T   | Diethyl Ether               | 0.407 | 0.439 | -7.9   | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.539 | 0.553 | -2.6   | 73    | 0.00     |
| 10 T  | Methyl Iodide               | 0.758 | 0.598 | 21.1#  | 57    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.160 | 0.156 | 2.5    | 75    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.532 | 0.501 | 5.8#   | 73    | 0.00     |
| 13 T  | Acrolein                    | 0.077 | 0.083 | -7.8   | 86    | 0.00     |
| 14 T  | Allyl chloride              | 1.155 | 1.143 | 1.0    | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 0.341 | 0.356 | -4.4   | 84    | 0.00     |
| 16 T  | Acetone                     | 0.358 | 0.431 | -20.4# | 97    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.403 | 1.216 | 13.3   | 67    | 0.00     |
| 18 T  | Methyl Acetate              | 0.844 | 0.864 | -2.4   | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.109 | 2.309 | -9.5   | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 0.710 | 0.667 | 6.1    | 86    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.587 | 0.571 | 2.7    | 77    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.155 | 2.416 | -12.1  | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.873 | 2.137 | -14.1  | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.142 | 1.192 | -4.4   | 83    | 0.00     |
| 25 T  | 2-Butanone                  | 0.490 | 0.504 | -2.9   | 81    | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 0.892 | 0.875 | 1.9    | 77    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.638 | 0.642 | -0.6   | 81    | 0.00     |
| 28 T  | Bromochloromethane          | 0.553 | 0.601 | -8.7   | 85    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.316 | 0.304 | 3.8    | 77    | 0.00     |
| 30 C  | Chloroform                  | 1.102 | 1.133 | -2.8#  | 82    | 0.00     |
| 31 T  | Cyclohexane                 | 0.903 | 0.814 | 9.9    | 65    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.934 | 0.921 | 1.4    | 74    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.778 | 0.724 | 6.9    | 74    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 79    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.393 | 0.364 | 7.4    | 74    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.526 | 0.476 | 9.5    | 71    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.632 | 0.617 | 2.4    | 79    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.550 | 0.524 | 4.7    | 73    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.599 | 0.549 | 8.3    | 67    | 0.00     |
| 40 TM | Benzene                     | 1.612 | 1.544 | 4.2    | 78    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.362 | 0.354 | 2.2    | 80    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.640 | 0.643 | -0.5   | 82    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.074 | 1.075 | -0.1   | 82    | 0.00     |
| 44 TM | Trichloroethene             | 0.447 | 0.433 | 3.1    | 75    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.435 | 0.445 | -2.3#  | 83    | 0.00     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX061118\  
 Data File : VX002436.D  
 Acq On : 11 Jun 2018 10:57  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 11 16:39:33 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.295 | 0.303 | -2.7  | 86    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.533 | 0.572 | -7.3  | 84    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.539 | 0.546 | -1.3  | 81    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.010 | 0.0   | 76    | 0.00     |
| 50 S  | Toluene-d8                  | 1.507 | 1.339 | 11.1  | 70    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.669 | 0.673 | -0.6  | 80    | 0.00     |
| 52 CM | Toluene                     | 1.025 | 1.021 | 0.4#  | 79    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.640 | 0.690 | -7.8  | 83    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.604 | 0.661 | -9.4  | 84    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.422 | 0.451 | -6.9  | 87    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.673 | 0.697 | -3.6  | 84    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.707 | 0.741 | -4.8  | 86    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.312 | 0.361 | -15.7 | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.516 | 0.534 | -3.5  | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.424 | 0.489 | -15.3 | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.440 | 0.474 | -7.7  | 85    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.581 | 0.550 | 5.3   | 74    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.516 | 0.452 | 12.4  | 71    | 0.00     |
| 65 PM | Chlorobenzene               | 1.244 | 1.212 | 2.6   | 82    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.450 | 0.464 | -3.1  | 86    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.082 | 2.020 | 3.0#  | 79    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.809 | 0.788 | 2.6   | 80    | 0.00     |
| 69 T  | o-Xylene                    | 0.805 | 0.788 | 2.1   | 81    | 0.00     |
| 70 T  | Styrene                     | 1.317 | 1.346 | -2.2  | 83    | 0.00     |
| 71 P  | Bromoform                   | 0.357 | 0.386 | -8.1  | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 86    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.478 | 3.106 | 10.7  | 78    | 0.00     |
| 74 T  | N-amyl acetate              | 1.874 | 1.614 | 13.9  | 82    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.094 | 1.006 | 8.0   | 87    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.097 | 0.889 | 19.0  | 74    | 0.00     |
| 77 T  | Bromobenzene                | 0.976 | 0.916 | 6.1   | 85    | 0.00     |
| 78 T  | n-propylbenzene             | 3.866 | 3.601 | 6.9   | 79    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.441 | 2.208 | 9.5   | 82    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.983 | 2.735 | 8.3   | 80    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.313 | 0.301 | 3.8   | 83    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.818 | 2.647 | 6.1   | 82    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.905 | 2.671 | 8.1   | 81    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.071 | 2.875 | 6.4   | 82    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.406 | 3.179 | 6.7   | 78    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.102 | 2.948 | 5.0   | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.746 | 1.680 | 3.8   | 86    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.800 | 1.720 | 4.4   | 87    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.602 | 2.608 | -0.2  | 80    | 0.00     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061118\  
Data File : VX002436.D  
Acq On : 11 Jun 2018 10:57  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Jun 11 16:39:33 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 05 03:22:35 2018  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.495 | 0.467 | 5.7  | 80    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.806 | 1.732 | 4.1  | 86    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.239 | 0.228 | 4.6  | 81    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.267 | 1.319 | -4.1 | 90    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.626 | 0.605 | 3.4  | 78    | 0.00     |
| 95 T | Naphthalene                 | 3.639 | 3.572 | 1.8  | 84    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.292 | 1.322 | -2.3 | 88    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6